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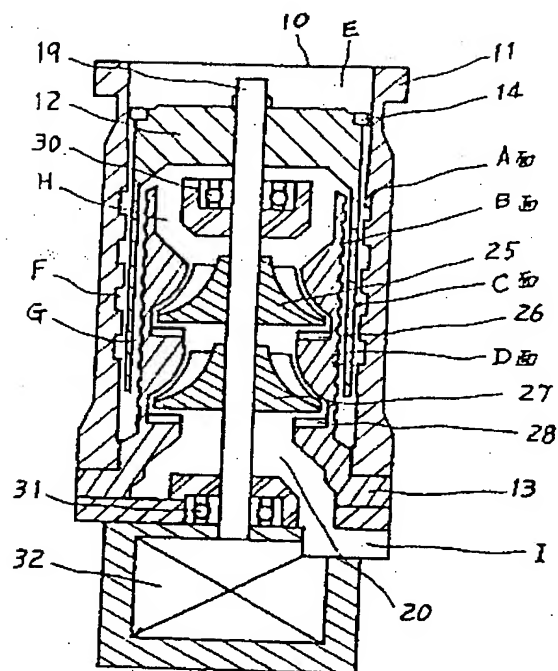
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TITLE : VACUUM PUMP



ABSTRACT : PURPOSE: To achieve the high vacuum degree in an early time without using an auxiliary pump by arranging a centrifugal compression pump in an exhaust passage and using a impeller and the shaft of the rotor of a vacuum pump in common, in the vacuum pump consisting of the molecular drag pump.

CONSTITUTION: A molecular drag pump 10 is constituted of a housing 1, roller 12, and a stator 13, and each screw groove is formed on the inside surface of the housing 11 and the outside surface of the stator 13. Inside of the stator of such a vacuum pump, centrifugal compression pumps consisting of impellers 25 and 27 and diffusers 26 and 28 are built in two stages, and the impellers 25 and 27 are fixed onto a common shaft 19, together with the rotor 12 of the pump 10 and the rotor of a motor 32. In the initial stage of the pump operation, exhaust action is carried out mainly by the centrifugal type compression pump, and the gas sucked from a suction port E is introduced into the suction port H of the centrifugal type compression pump 20 through the gaps F and G.

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